

I CLAIM:

1. A magnetizable sound deadening wall covering, which upon magnetization simultaneously reduces wall vibration and reflected nuisance noise normally transmitted through air, when magnetically adhered to a wall, comprising:

a magnetizable viscoelastic constrained layer;

and a constraining layer attached to said magnetizable viscoelastic constrained layer.

2. A magnetizable sound deadening wall covering, which upon magnetization simultaneously reduces wall vibration and reflected nuisance noise normally transmitted through air, when magnetically adhered to a wall, comprising:

a magnetizable viscoelastic constrained layer;

a constraining layer attached to said magnetizable viscoelastic constrained layer; and

an acoustic absorption or sound attenuating layer attached to said constraining layer.

3. A magnetizable sound deadening wall covering, which upon magnetization simultaneously reduces wall vibration and reflected nuisance noise normally transmitted through air, when magnetically attached to a wall, comprising:

a magnetizable viscoelastic constrained layer;

a constraining layer attached to said magnetizable viscoelastic constrained layer;

a rigid constraining layer attached to said constraining layer;

and

an acoustic absorption or sound attenuating layer attached to said rigid constraining layer.

4. A magnetic sound deadening wall covering, that simultaneously reduces wall vibration and reflected nuisance noise normally transmitted through air, when magnetically adhered to a wall, comprising:

a magnetic viscoelastic constrained layer; and

a constraining layer attached to said magnetic viscoelastic layer.

5. A magnetic sound deadening wall covering, which simultaneously reduces wall vibration and reflected nuisance noise normally transmitted through air, when magnetically adhered to a wall, comprising:

a magnetic viscoelastic constrained layer;

a constraining layer attached to said magnetic viscoelastic constrained layer; and

an acoustic absorption or sound attenuating layer attached to said constraining layer.

6. A magnetic sound deadening wall covering, which simultaneously reduces wall vibration and reflected nuisance noise normally transmitted through air, when magnetically attached to a wall, comprising:

a magnetic layer;
a first constrained damping layer attached to said magnetic layer;
a rigid constraining layer attached to said first constrained damping layer; and
an acoustic absorption or sound attenuating layer attached to said rigid constraining layer.

7. The magnetizable sound deadening wall covering of claim 1 wherein the constraining layer is a viscoelastic material.

8. The magnetizable sound deadening wall covering of claim 1 wherein the constraining layer is aluminum.

9. The magnetizable sound deadening wall covering of claim 2 wherein the constraining layer is a viscoelastic material.

10. The magnetizable sound deadening wall covering of claim 2 wherein the constraining layer is aluminum.

11. The magnetizable sound deadening wall covering of claim 3 wherein the constraining layer is a viscoelastic material.

12. The magnetizable sound deadening wall covering of claim 3 wherein the rigid constraining layer is aluminum.

13. The magnetizable sound deadening wall covering of claim 3 wherein the constraining layer is a viscoelastic material and the rigid constraining layer is a aluminum.

14. The magnetic sound deadening wall covering of claim 4 wherein the constraining layer is a viscoelastic material.

15. The magnetic sound deadening wall covering of claim 5 wherein the constraining layer is a viscoelastic material.

16. The magnetic sound deadening wall covering of claim 6 wherein the rigid constraining layer is a viscoelastic material.

17. The magnetic sound deadening wall covering of claim 6 wherein the rigid constraining layer is aluminum.

18. A magnetizable or magnetic sound deadening wall covering, which upon magnetization reduces wall vibration when magnetically adhered to a wall, comprising:

a viscoelastic magnetizable layer.